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## **1 Cooperating knowledge-based assistants for the office**

A. Roger Kaye, Gerald M. Karam

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4Full text available: [pdf\(2.12 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents an approach to high-level support of office workers by embedding office knowledge in a network of distributed cooperating knowledge-based or expert "assistants" and servers. These knowledge-based systems incorporate both factual and procedural knowledge and are capable of making use of existing conventional office technology. They constitute a form of computer-supported cooperative work. We describe a common architecture for our assistants and servers that in ...

## **2 Object lens: a "spreadsheet" for cooperative work**

Kum-Yew Lai, Thomas W. Malone, Keh-Chiang Yu

October 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 4Full text available: [pdf\(1.78 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Object Lens allows unsophisticated computer users to create their own cooperative work applications using a set of simple, but powerful, building blocks. By defining and modifying templates for various semistructured objects, users can represent information about people, tasks, products, messages, and many other kinds of information in a form that can be processed intelligently by both people and their computers. By collecting these objects in customizable folders, users can create their own ...

## **3 ASCW: an assistant for cooperative work**

Thomas Kreifelts, Wolfgang Prinz

December 1993 **Proceedings of the conference on Organizational computing systems**Full text available: [pdf\(2.11 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** distributed work management, group communication, integration, organizational modeling, video conferencing

**4 Supporting distributed office problem solving in organizations**

Carson C. Woo, Frederick H. Lochovsky

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 3Full text available:  pdf(1.35 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To improve the effectiveness of office workers in their decision making, office systems have been built to support (rather than replace) their judgment. However, these systems model office work in a centralized environment, and/or they can only support a single office worker. Office work that is divided into specialized domains handled by different office workers (where cooperation is needed in order to accomplish the work) is not supported. In this paper, we will present a model that suppo ...

**Keywords:** cooperative tools, managerial office work, object-oriented environment, office communication

**5 DAIDA: an environment for evolving information systems**

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou

January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1Full text available:  pdf(3.63 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

**Keywords:** knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

**6 Combining local negotiation and global planning in cooperative software development projects**

Kazuo Okamura

December 1993 **Proceedings of the conference on Organizational computing systems**Full text available:  pdf(1.24 MB)Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** change management, conflict resolution, negotiation, planning, software project management, version and configuration management

**7 A rule-based message filtering system**

Stephen Pollock

July 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 3Full text available:  pdf(1.74 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Much computerized support for knowledge workers has consisted of tools to handle low-level functions such as distribution, storage, and retrieval of information. However, the higher level processes of making decisions and taking actions with respect to this information have not been supported to the same degree. This paper describes the ISCREEN prototype system for screening text messages. ISCREEN includes a high-level

interface for users to define rules, a component that screens text messa ...

**8 Supporting user-defined activity spaces**

Weigang Wang, Jörg Haake

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** activity space, hypertext model, intelligent system, object-oriented system, schema definition, schema integration, semantic net

**9 OASIS: a programming environment for implementing distributed organizational support systems**

Clarence Martens, Frederick H. Lochovsky

October 1991 **ACM SIGOIS Bulletin , Conference proceedings on Organizational computing systems**, Volume 12 Issue 2-3

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



**10 Spatial Hypertext: Semantics happen: knowledge building in spatial hypertext**

Frank Shipman, J. Michael Moore, Preetam Maloor, Huawei Hsieh, Raghu Akkapeddi

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Full text available: [pdf\(392.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Hypertext represents ideas through chunks of text or other media interconnected by relations, typically navigational links. The similarity to knowledge representations such as frames and semantic nets has led to much effort in using hypertext systems for knowledge representation and extending hypertext systems to make them able to express more. This work has met with limited success due to difficulties including the tacit and situated nature of much knowledge. Instead of viewing knowledge expres ...

**Keywords:** incremental formalization, mixed-initiative dialogs, spatial hypertext, spatial parser, suggestion-based interfaces, visual language

**11 The role of critiquing in cooperative problem solving**

Gerhard Fischer, Andreas C. Lemke, Thomas Mastaglio, Andres I. Morch

April 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 2

Full text available: [pdf\(2.05 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** cooperative problem-solving systems, critics, critiquing, design environments, high-functionality computer systems, intelligent support systems

**12 Special issue on user modeling: Modeling the user in natural language systems**

Robert Kass, Tim Finin

September 1988 **Computational Linguistics**, Volume 14 Issue 3

Full text available: [pdf\(2.13 MB\)](#) [ps](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)



Publisher Site

For intelligent interactive systems to communicate with humans in a natural manner, they must have knowledge about the system users. This paper explores the role of *user modeling* in such systems. It begins with a characterization of what a user model is and how it can be used. The types of information that a user model may be required to keep about a user are then identified and discussed. User models themselves can vary greatly depending on the requirements of the situation and the imple ...

**13 The executive office of environmental affairs systems modernization project**

Robert A. Huebner

April 1999 **Proceedings of the 19th annual conference on Computer Science**

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [references](#)

**14 The envoy framework: an open architecture for agents**

Murugappan Palaniappan, Nicole Yankelovich, George Fitzmaurice, Anne Loomis, Bernard Haan, James Coombs, Norman Meyrowitz

July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3

Full text available:  pdf(2.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The Envoy Framework addresses a need for computer-based assistants or agents that operate in conjunction with users' existing applications, helping them perform tedious, repetitive, or time-consuming tasks more easily and efficiently. Envoy carry out missions for users by invoking envoy-aware applications called operatives and inform users of mission results via envoy-aware applications called informers. The distributed, open architecture developed for Envoy is derived from an analysis of ...

**Keywords:** application programmer interface, user agent

**15 Launching the new era**

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available:  pdf(3.45 MB) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

**16 HyperActive: extending an open hypermedia architecture to support agency**

J. Alfredo Sánchez, John J. Leggett, John L. Schnase

December 1994 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 1 Issue 4

Full text available:  pdf(2.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)



Agency and hypermedia have both been suggested as powerful means to cope with future information management and human-computer interaction requirements. However, research projects have included interface agents only marginally in the context of hypermedia systems. This article proposes a set of criteria for characterizing interface agents and offers a perspective view of ongoing research in the field using those criteria as a framework. The need to provide a supporting infrastructure that f ...

**Keywords:** HyperActive, agent-aware hyperbases, interface agents, open hypermedia systems

**17 Task support in an office system**

W Bruce Croft, Lawrence S. Lefkowitz

August 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 3Full text available:  [pdf\(1.08 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**18 An example of management training in expert systems: SBA loan evaluation system**

Sudesh M. Duggal, Paul R. Popovich

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**Full text available:  [pdf\(2.19 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**19 Level II technical support in a distributed computing environment**

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**Full text available:  [pdf\(5.73 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**20 Partially shared views: a scheme for communicating among groups that use different type hierarchies**

Jintae Lee, Thomas W. Malone

January 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 1Full text available:  [pdf\(2.17 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many computer systems are based on various types of messages, forms, or other objects. When users of such systems need to communicate with people who use different object types, some kind of translation is necessary. In this paper, we explore the space of general solutions to this translation problem and propose a scheme that synthesizes these solutions. After first illustrating the problem in the Object Lens system, we identify two partly conflicting objectives that any translation scheme ...

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**1 Supporting distributed office problem solving in organizations**

Carson C. Woo, Frederick H. Lochovsky

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 3
 Full text available: [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To improve the effectiveness of office workers in their decision making, office systems have been built to support (rather than replace) their judgment. However, these systems model office work in a centralized environment, and/or they can only support a single office worker. Office work that is divided into specialized domains handled by different office workers (where cooperation is needed in order to accomplish the work) is not supported. In this paper, we will present a model that suppo ...

**Keywords:** cooperative tools, managerial office work, object-oriented environment, office communication

**2 Supporting organizational problem solving with a work station**

Gerald Barber

January 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 1
 Full text available: [pdf\(1.40 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**3 Level II technical support in a distributed computing environment**

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**
 Full text available: [pdf\(5.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
**4 Supporting organizational problem solving with a workstation**

Gerald Barber

June 1982 **ACM SIGOA Newsletter, Proceedings of the SIGOA conference on Office information systems**, Volume 3 Issue 1-2
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(243.45 KB\)](#)

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This paper describes an approach to supporting work in the office. Using and extending ideas from the field of Artificial Intelligence (AI) we describe office work as a problem solving activity. A knowledge embedding language called Omega is used to embed knowledge of the organization into an office worker's workstation in order to support the office worker in his or her problem solving. A particular approach to reasoning about change and contradiction is discussed. This approach uses Omega ...

5 Organizational modelling and problem solving using object-oriented knowledge representation server and visual language

Brian R. Gaines

October 1991 **ACM SIGOIS Bulletin, Conference proceedings on Organizational computing systems**, Volume 12 Issue 2-3

Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

6 Beyond the chalkboard: computer support for collaboration and problem solving in meetings

Mark Stefik, Gregg Foster, Daniel G. Bobrow, Kenneth Kahn, Stan Lanning, Lucy Suchman  
January 1987 **Communications of the ACM**, Volume 30 Issue 1

Full text available:  [pdf\(2.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Although individual use of computers is fairly widespread, in meetings we tend to leave them behind. At Xerox PARC, an experimental meeting room called the Colab has been created to study computer support of collaborative problem solving in face-to-face meetings. The long-term goal is to understand how to build computer tools to make meetings more effective.

7 Cooperating knowledge-based assistants for the office

A. Roger Kaye, Gerald M. Karam

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4

Full text available:  [pdf\(2.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents an approach to high-level support of office workers by embedding office knowledge in a network of distributed cooperating knowledge-based or expert "assistants" and servers. These knowledge-based systems incorporate both factual and procedural knowledge and are capable of making use of existing conventional office technology. They constitute a form of computer-supported cooperative work. We describe a common architecture for our assistants and servers that in ...

8 Communications design for Co-oP: a group decision support system

Tung X. Bui, Matthias Jarke

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 2

Full text available:  [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Decision Support Systems (DSSs), computer-based systems intended to assist managers in preparing and analyzing decisions, have been single-user systems for most of the past decade. Only recently has DSS research begun to study the implications of the fact that most complex managerial decisions involve multiple decision makers and analysts. A number of tools for facilitating group decisions have been proposed under the label Group Decision Support Systems (GDSSs). One of the most ...

**9 A society model for office information systems**

Cheng-Seen Ho, Yang-Chang Hong, Te-Son Kuo

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 2Full text available:  pdf(2.24 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

A society model, which characterizes the behavior and procedure of offices, is proposed. It is our belief that an office system capable of dealing with all real office problems only through the modeling of the internal behavior of an office can be developed. In this society model, office entities are viewed as agents. An agent is modeled as a microsociety of interacting knowledge sources. Within the microsociety, there exists a micr ...

**10 A micro-organizational model for supporting knowledge migration**

F. H. Lochovsky, C. C. Woo, L. J. Williams

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Volume 11 Issue 2-3Full text available:  pdf(1.02 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of an organization's assets is the knowledge it has for carrying out its activities in an acceptable way. However, due to the constantly changing environment in which it operates, its knowledge must evolve in order for it to survive and to stay competitive. For this reason, it is inappropriate to hard-code organizational knowledge into a computer-based organizational support system. Supporting the evolution of organizational knowledge, in general, is a very difficult problem because the ...

**11 OASIS: a programming environment for implementing distributed organizational support systems**

Clarence Martens, Frederick H. Lochovsky

October 1991 **ACM SIGOIS Bulletin , Conference proceedings on Organizational computing systems**, Volume 12 Issue 2-3Full text available:  pdf(1.01 MB)Additional Information: [full citation](#), [references](#), [index terms](#)**12 The impact of a multifunction workstation on managerial and organizational communications**

Mary Sumner

October 1985 **Proceedings of the 1985 ACM annual conference on The range of computing : mid-80's perspective: mid-80's perspective**Full text available:  pdf(1.29 MB)Additional Information: [full citation](#), [references](#), [index terms](#)**13 Providing intelligent assistance in distributed office environments**

Sergei Nirenburg, Victor Lesser

December 1986 **ACM SIGOIS Bulletin , Proceedings of the third ACM-SIGOIS conference on Office automation systems**, Volume 7 Issue 2-3Full text available:  pdf(891.87 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We argue that a task-centered, an agent-centered and a cognition-oriented perspective are all needed for providing intelligent assistance in distributed office environments. We present the architecture for a system called OFFICE that combines these three perspectives. We illustrate this architecture through an example.

### The interdisciplinary study of coordination

Thomas W. Malone, Kevin Crowston

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available:  [pdf\(584.94 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This survey characterizes an emerging research area, sometimes called coordination theory, that focuses on the interdisciplinary study of coordination. Research in this area uses and extends ideas about coordination from disciplines such as computer science, organization theory, operations research, economics, linguistics, and psychology. A key insight of the framework presented here is that coordination can be seen as the process of managing dependencies ...

**Keywords:** computer-supported cooperative work, coordination, coordination science, coordination theory, groupware

### 15 Strategies for encouraging successful adoption of office communication systems

Susan F. Ehrlich

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4

Full text available:  [pdf\(1.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The adoption of new computer communication systems into organizations requires behavioral change. Planning for successful adoption requires knowledge of individual organizational communication patterns and the relationship between those patterns and particular communication system solutions. This paper documents a sequence of studies of organizational communication. Needs for office communication systems were identified, as were social and psychological factors temporarily inhibiting their ...

### 16 Different perspectives on information systems: problems and solutions

Kalle Lyytinen

March 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 1

Full text available:  [pdf\(4.29 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper puts information systems (IS) research dealing with IS problems into perspective. IS problems are surveyed and classified. Using the IS research framework suggested by Ives, Hamilton, and Davis, research into IS problems is classified into several perspectives whose relevance in coping with the problems is discussed. Research perspectives focusing on IS operations environment, IS development process, IS development organization, IS development methods, and IS theories are distingu ...

### 17 An ethnographic study of distributed problem solving in spreadsheet development

Bonnie A. Nardi, James R. Miller

September 1990 **Proceedings of the 1990 ACM conference on Computer-supported cooperative work**

Full text available:  [pdf\(1.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In contrast to the common view of spreadsheets as "single-user" programs, we have found that spreadsheets offer surprisingly strong support for cooperative development of a wide variety of applications. Ethnographic interviews with spreadsheet users showed that nearly all of the spreadsheets used in the work environments studied were the result of collaborative work by people with different levels of programming and domain expertise. Cooperation among spreadsheet users was spont ...

**18 Groupware: some issues and experiences**

Clarence A. Ellis, Simon J. Gibbs, Gail Rein

January 1991 **Communications of the ACM**, Volume 34 Issue 1Full text available:  pdf(7.22 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19 Office Information Systems and Computer Science**

Clarence A. Ellis, Gary J. Nutt

January 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 1Full text available:  pdf(2.87 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20 Perspectives on and problems with computer-mediated teamwork: current groupware issues and assumptions**

Rita M. Vick

May 1998 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 22 Issue 2Full text available:  pdf(1.81 MB)Additional Information: [full citation](#), [abstract](#), [index terms](#)

The current business environment is characterized by increasing globalization of the workplace and the use of teams working in distributed environments to cope with uncertainty, change, ambiguous problem definitions, and rapidly changing information. The technologies facilitating this virtual workplace include groupware for workflow process management and distributed meeting support. Groupware interventions have not been accepted by the majority of potential users. This paper attempts to determi ...

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**1** [Supporting user-defined activity spaces](#)

Weigang Wang, Jörg Haake

April 1997 **Proceedings of the eighth ACM conference on Hypertext**Full text available: [pdf\(1.28 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** activity space, hypertext model, intelligent system, object-oriented system, schema definition, schema integration, semantic net

**2** [Temporally threaded workspace: a model for providing activity-based perspectives on document spaces](#)

Koichi Hayashi, Takahiko Nomura, Tan Hazama, Makoto Takeoka, Sunao Hashimoto, Stephan Gumundson

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**Full text available: [pdf\(1.37 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3** [Flexible support for business processes: extending cooperative hypermedia with process support](#)

Jörg M. Haake, Weigang Wang

November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work : the integration challenge: the integration challenge**Full text available: [pdf\(1.62 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** activity space, cooperative work, flexible workflow, hypermedia

**4** [Flexible coordination with cooperative hypertext](#)

Weigang Wang, Jörg M. Haake



May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Full text available: [pdf\(1.69 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: [pdf\(316.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords:** applications., definitions, foundations, taxonomy

6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 Interlocus: workspace configuration mechanisms for activity awareness

Takahiko Nomura, Koichi Hayashi, Tan Hazama, Stephan Gudmundson

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**

Full text available: [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** World Wide Web, awareness, common information space, contextual information sharing, shared workspace

8 Digital libraries: Directions for hypertext research: exploring the design space for interactive scholarly communication

John J. Leggett, Frank M. Shipman

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**

Full text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is a "call to arms" for the community to take up Van Bush's original challenge of effecting a transformation of scholarly communications and record keeping. It argues for

the necessity of an interactive scholarly communication research agenda by briefly reviewing the rapid development of alternative authoring and publishing models. Seven dimensions of interactive communication that delineate a design space for the area are described. Previous work and existing new media are used to in ...

**Keywords:** digital libraries, institutional repositories, interactive fiction, interactive narrative, interactive scholarly communications, new media, storytelling engines

**9 Supporting personalization: Supporting personal collections across digital libraries in spatial hypertext**

Frank M. Shipman, Haowei Hsieh, J. Michael Moore, Anna Zacchi

June 2004 **Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries**

Full text available:  [pdf\(2.38 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Creating, maintaining, or using a digital library requires the manipulation of digital documents. Information workspaces provide a visual representation allowing users to collect, organize, annotate, and author information. The Visual Knowledge Builder(VKB) helps users access, collect, annotate, and combine materials from digital libraries and other sources into a personal information workspace. VKB has been enhanced to include direct search interfaces for NSDL and Google. Users create a visualiz ...

**Keywords:** collection organization, incremental formalization, information triage, information visualization, metadata, spatial hypertext

**10 MultiMedia: Context perception in video-based hypermedia spaces**

Teresa Chambel, Nuno Guimarães

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Full text available:  [pdf\(648.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Multimedia hypertext has grown from the basic addition of dynamic media only at "leaf" nodes of the hypertext, to higher structured attempts to compose and integrate the different media. One of the core problems in this evolution has been, and still is, the construction and perception of context, making explicit which part of a presentation is relevant when media elements are integrated. The search for contextualized integration of video material with other sources of information has emerged fro ...

**Keywords:** HTIMEL, cognitive processes, design, education, entertainment, hypervideo, integration in context, interactive video and TV, link awareness

**11 Modeling shared information spaces (SIS)**

Marit Kjøsnes Natvig, Oddrun Ohren

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many companies experience that their corporate intranet is getting complex and poorly manageable. We believe that developing a model for the website, or shared information space will make the management easier and provide solutions that support collaboration and knowledge sharing within the enterprise. The present paper proposes a meta model defining the conceptual building blocks of an information space. The meta model takes knowledge as well as information sharing into account by letting ...

**Keywords:** knowledge sharing, meta model, ontology, shared information space

## 12 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  [pdf\(483.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

## 13 2b---Hypertext Systems: Organizing shared enterprise workspaces using component-based cooperative hypermedia

Jessica Rubart, Jörg M. Haake, Daniel A. Tietze, Weigang Wang

September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Full text available:  [pdf\(380.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Cooperative work in Extended Enterprises needs a flexible shared workspace for team members to access and manipulate shared information objects in a well-coordinated working process. Current shared workspace systems do not adequately support the evolving character of shared workspaces as needed by Extended Enterprises, i.e. the dynamic cooperation processes, various kinds of shared information contents and the set of cooperative tools. In this paper, the usage scenarios and requirements devel ...

## 14 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

**Keywords:** HTML, WWW, application, development, intranet, modeling

## 15 Structured hypertext with domain semantics

Weigang Wang, Roy Rada

October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

Full text available:  [pdf\(593.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One important facet of current hypertext research involves using knowledge-based techniques to develop and maintain document structures. A semantic net is one such technique. However, most semantic-net-based hypertext systems leave the linking consistency of the net to individual users. Users without guidance may accidentally introduce structural and relational inconsistencies in the semantic nets. The relational inconsistency hinders the creation of domain information models. The structura ...

**Keywords:** graph theory, hypertext models, hypertext structures

**16 Team-and-role-based organizational context and access control for cooperative hypermedia environments**

Weigang Wang

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**

Full text available:  [pdf\(2.13 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** cooperative hypermedia, coordination, groupware, process support, role-based access control, workflow

**17 XHMBS: a formal model to support hypermedia specification**

Fabiano B. Paulo, Marcelo Augusto S. Turine, Maria Cristina F. de Oliveira, Paulo C. Masiero  
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Full text available:  [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**18 Software process modeling and execution within virtual environments**

John C. Dopke, Dennis Heimbigner, Alexander L. Wolf

January 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 1

Full text available:  [pdf\(232.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the past, multiuser virtual environments have been developed as venues for entertainment and social interaction. Recent research focuses instead on their utility in carrying out work in the real world. This research has identified the importance of a mapping between the real and the virtual that permits the representation of real tasks in the virtual environment. We investigate the use of virtual environments—in particular, MUDs (Multi-User Dimensions)—in the domain of softwa ...

**Keywords:** MOO, MUD, PROMO, software process, tools, virtual environments

**19 Beyond location: hypertext workspaces and non-linear views**

Frank M. Shipman, Catherine C. Marshall, Mark LeMere

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**

Full text available:  [pdf\(3.20 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** VIKI, analysis, fisheye views, information workspaces, interpretation, reduced document representations, visual languages, visualization

20 Extending document management systems with user-specific active properties

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Full text available:  [pdf\(166.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional hierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

**Keywords:** active properties, component software, document management systems, document services, user experience

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[an extensible knowledge base management system for supporting rule based interoperability among heterogeneous systems](#)

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**1 An extensible knowledge base management system for supporting rule-based interoperability among heterogeneous systems**

Stanley Y. W. Su, Herman Lam, Javier Arroyo-Figueroa, Tsae-Feng Yu, Zhidong Yang

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Full text available: [pdf\(1.17 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**2 Object orientation in multidatabase systems**

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Full text available: [pdf\(4.85 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and database systems. There has been a recent proliferation of research suggesting the application of techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach is promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

**Keywords:** distributed objects, federated databases, integration, multidatabases, views

**3 Interoperability of multiple autonomous databases**

Witold Litwin, Leo Mark, Nick Roussopoulos

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available: [pdf\(2.66 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Database systems were a solution to the problem of shared access to heterogeneous files created by autonomous applications in a centralized environment. To make data usage easier, the files were integrated into a single, global database. To a large extent, the idea was successful, and many databases are now interconnected through local and long-haul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

**4 Distributed systems - programming and management: On remote procedure call**

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Computer Research - Volume 2**

Full text available:  pdf(4.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the evolution of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. The paradigm that have been proposed to enlarge its suitability, are studied. The main contributions to a standard view and classification of RPC mechanisms according to different perspectives, and a standard paradigm in use today and of goals for the future ...

5 **Managing semantic heterogeneity in databases: a theoretical prospective**

Richard Hull

May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available:  pdf(1.77 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 **An experimental object-based sharing system for networked databases**

Doug Fang, Shahram Ghandeharizadeh, Dennis McLeod

April 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12, Number 1

Full text available:  pdf(195.97 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

An approach and mechanism for the transparent sharing of objects in an environment of interconnected autonomous database systems is presented. An experimental prototype system has been designed and an analysis of its performance conducted. Previous approaches to sharing in this environment use the use of a global, integrated conceptual database schema; users and applications must pose quite a high level of abstraction to access remote information ...

**Keywords:** Database system interoperability, Experimental prototype benchmarking, Object sharing, Object-based sharing, Networked databases

7 **Using semantic values to facilitate interoperability among heterogeneous information systems**

Edward Sciore, Michael Siegel, Arnon Rosenthal

June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Full text available:  pdf(2.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Large organizations need to exchange information among many separately developed systems. In order for exchange to be useful, the individual systems must agree on the meaning of their exchanged data. An organization must ensure semantic interoperability. This paper provides a theory of semantic value exchange that facilitates semantic interoperability between heterogeneous information systems. Semantic values can be exchanged ...

8 **Context interchange: overcoming the challenges of large-scale interoperable database systems in a dynamic environment**

Cheng Hian Goh, Stuart E. Madnick, Michael D. Siegel

November 1994 **Proceedings of the third international conference on Information and knowledge management**

Full text available:  pdf(1.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research in database interoperability has primarily focused on circumventing schematic and semantic heterogeneities arising from autonomy of the underlying databases. We argue that, while existing integration strategies may provide satisfactory support for small or static systems, their inadequacies rapidly become evident in large-scale interoperable database systems operating in a dynamic environment. This paper highlights the problems of heterogeneity, scalability, and performance ...

9 **The model-assisted global query system for multiple databases in distributed enterprises**

Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Full text available:  pdf(697.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today's enterprises typically employ multiple information systems, which are independently developed, administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries. It requires a global query system capable of providing on-line intelligent assistance to users. Conventional approaches such as schema-based query languages and ha ...

**10 Evolution support in large-scale interoperable systems: a metadata driven approach.**

Nick Pittas, Andrew. C. Jones, W. A. Gray

January 2001 **Proceedings of the 12th Australasian conference on Database technologies**

Full text available:  pdf(881.72 KB)

 Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the fundamental difficulties associated with large-scale database interoperability is the cost for maintaining the federation in a consistent state after its launch. If only human intervention is used, the task of maintaining logical federation consistency becomes insurmountable as the scale increases. We research towards a federation evolution model which takes into account evolving semantic aspects and severe. We discuss desirable properties of ...

**11 Evolutionary design of complex software (EDCS) demonstration days 1999**

Wayne Stidolph

January 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 1

Full text available:  pdf(1.90 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This report summarizes the Product/Technology demonstrations given at Defense Advanced Research Project Agency (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstration Days, 1999 at the Sheraton National Hotel, Arlington, VA.

**12 An extensible query optimizer for an objectbase management system**

M. Tamer Özsu, Adriana Muñoz, Duane Szafron

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Full text available:  pdf(1.06 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**13 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Computer research**

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool, Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often too complex to be useful. They do not provide the user with the desired overview of the application. In our experience, such tools often miss occurrences of non-trivial communication patterns ...

**14 Federated database systems for managing distributed, heterogeneous, and autonomous data**

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available:  pdf(5.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A federated database system (FDBS) is a collection of cooperating database systems that are automatically integrated to appear as a single database to the user. The user can query the system as if it were a single database, and the system automatically handles the distribution of the query across the underlying databases. This allows users to access data from multiple sources without having to worry about the physical location of the data. It also allows for distributed processing, where tasks can be assigned to different databases based on their location or availability. Federated databases are particularly useful for managing distributed, heterogeneous, and autonomous data, such as data from different companies or different departments within a company. They can also be used to manage data from different sources, such as sensors, cameras, and other devices. Federated databases are becoming increasingly popular in various applications, such as e-commerce, healthcare, and finance.

possibly heterogeneous. In this paper, we define a reference architecture for distributed database systems from system and schema viewpoints and show how various FDBS architectures can be designed. We also define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss the challenges related to developing and operating an FDBS.

#### **15 SchemaSQL: An extension to SQL for multidatabase interoperability**

Laks V. S. Lakshmanan, Fereidoon Sadri, Subbu N. Subramanian

December 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 4

Full text available:  [pdf\(435.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [citations](#)

We provide a principled extension of SQL, called *SchemaSQL*, that offers the capability of uniform access to data and schema in relational multidatabase systems. We develop a precise syntax and semantics for *SchemaSQL* in a manner that extends traditional SQL syntax and semantics, and demonstrate the following. (1) *SchemaSQL* preserves the flavor of SQL while supporting querying of both data and schema. (2) It can be used to transparently access data in a structure substa ...

**Keywords:** Information integration, SchemaSQL, multidatabase systems, restructuring views, schema heterogeneity

#### **16 Predicate rewriting for translating Boolean queries in a heterogeneous information system**

Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke

January 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 1

Full text available:  [pdf\(350.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages used by different sources. Our approach is to allow users to compose Boolean queries in one rich front-end language. For each target source, we transform the user query into a subsuming query that can be supported by the source. The results are then processed by a filter query to yield the correct final results. In this article we introduce the architecture ...

**Keywords:** Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

#### **17 Query evaluation techniques for large databases**

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for processing and manipulating large sets and sequences will be required to provide acceptable performance. Traditional query processing techniques for large databases will not solve this problem. On the contrary, modern database systems will exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as traditional database systems manipulate simple records, query-processi ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible databases, object-oriented database systems, operator model of parallelization, parallel algorithms, relational databases, set-matching algorithms, sort-hash duality

#### **18 Version models for software configuration management**

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  [pdf\(483.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), consistent configurations of versioned software products still remains a challenge. This article focuses on models underlying both commercial systems and research prototypes. It provides an overview of different versioning paradigms and defines and relates fundamental concepts such as revisions, versions, configurations, and changes. In particular, we focus ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

**19 WWW-UDK: a web-based environmental meta-information system**

Ralf Kramer, Ralf Nicholai, Arne Koschel, Claudia Rolker, Peter Lockemann, Andree Keitel, Rudolf Lec  
March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

Full text available:  [pdf\(230.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The environmental data catalogue *Umweltdatenkatalog* UDK is a standard meta-information system for environmental data for use by state authorities and the public. Technically, the UDK consists of a database with a front-end tailored to the needs of environmental specialists. FZI's contribution has been to develop that makes the UDK database available using the tools and techniques of the World-Wide Web. All of WWW-UDK are several query modes for the UDK ...

**20 Extensions to Starburst: objects, types, functions, and rules**

Guy M. Lohman, Bruce Lindsay, Hamid Pirahesh, K. Bernhard Schiefer  
October 1991 **Communications of the ACM**, Volume 34 Issue 10

Full text available:  [pdf\(5.21 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Extended relational database management systems, Starburst, extensible database management systems

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**31 A medical expert system using object-oriented framework**

*Tsang, C.H.K.; Bloor, C.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on, 10-12 June 1994  
Pages:176 - 181

[\[Abstract\]](#) [\[PDF Full-Text \(208 KB\)\]](#) **IEEE CNF**

**32 The computer tool of the mitral valve prolapse determination based on automatic learning**

*Zavrsnik, J.; Kancler, K.; Kokol, P.; Mernik, M.; Malcic, I.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on, 10-12 June 1994  
Pages:170 - 175

[\[Abstract\]](#) [\[PDF Full-Text \(196 KB\)\]](#) **IEEE CNF**

**33 Construction of time-specified reference limits for growth hormone secretion in prepuberal children**

*Hermida, R.C.; Garcia, L.; Fernandez, J.R.; Ayala, D.E.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on, 10-12 June 1994  
Pages:164 - 169

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) **IEEE CNF**

**34 Architecture of CIRCSIM-Tutor (v.3): a smart cardiovascular physiology tutor**

*Khuwaja, R.A.; Evens, M.W.; Rovick, A.A.; Michael, J.A.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh

Symposium on , 10-12 June 1994  
Pages:158 - 163

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) [IEEE CNF](#)

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**35 A heuristic to isolate interfering bodies in the BNCT treatment plan system**

*Chawla, R.; Starkey, J.D.; Babcock, R.S.; Wessol, D.E.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh  
Symposium on , 10-12 June 1994  
Pages:152 - 157

[\[Abstract\]](#) [\[PDF Full-Text \(180 KB\)\]](#) [IEEE CNF](#)

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**36 Towards automated brachytherapy film implant labeling using statistical pattern recognition**

*Bird, W.F.; Coggins, J.M.; Chaney, E.L.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh  
Symposium on , 10-12 June 1994  
Pages:146 - 151

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) [IEEE CNF](#)

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**37 The detection of micro-calcifications in mammographic images using high dimensional features**

*Solka, J.L.; Poston, W.L.; Priebe, C.E.; Rogers, G.W.; Lorey, R.A.; Marchette, Woods, K.; Bowyer, K.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh  
Symposium on , 10-12 June 1994  
Pages:139 - 145

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) [IEEE CNF](#)

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**38 An LZ approach to ECG compression**

*Horspool, R.N.; Windels, W.J.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh  
Symposium on , 10-12 June 1994  
Pages:71 - 76

[\[Abstract\]](#) [\[PDF Full-Text \(256 KB\)\]](#) [IEEE CNF](#)

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**39 An interactive computerized system for recognition of sinus rhythm, pacing responses in development of tachycardia detection algorithms ICDs**

*Hua Yang; Baga, J.; LeCarpentier, G.L.; Machado, C.; Steinman, R.T.; Lehman, M.H.;*  
Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh  
Symposium on , 10-12 June 1994  
Pages:67 - 70

[\[Abstract\]](#) [\[PDF Full-Text \(172 KB\)\]](#) [IEEE CNF](#)

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**40 In vitro and in vivo low frequency acoustic analysis of Bjork-Shiley**

**convexo-concave heart valve opening sounds**

Durand, L.G.; Stein, P.D.; Grenier, M.C.; Henry, J.W.; Inderbitzen, R.; Wietin D.W.; Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994  
Pages:61 - 66

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) [IEEE CNF](#)

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**41 Measurement of sounds generated by mechanical aortic and mitral heart valve prostheses**

Nygaard, H.; Inderbitzen, R.; Hasenkam, J.M.; Wieting, D.W.; Paulsen, P.K.; Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994  
Pages:55 - 60

[\[Abstract\]](#) [\[PDF Full-Text \(196 KB\)\]](#) [IEEE CNF](#)

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**42 In-vitro study of mechanical heart valve sound loudness as measured by ISO-532/B**

Erickson, R.; Thulin, L.; Richard, G.; Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994  
Pages:53 - 54

[\[Abstract\]](#) [\[PDF Full-Text \(80 KB\)\]](#) [IEEE CNF](#)

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**43 Finite element analysis of vibrations of the Bjork Shiley Convexo-Concave heart valve**

Chia, R.; Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994  
Pages:48 - 52

[\[Abstract\]](#) [\[PDF Full-Text \(152 KB\)\]](#) [IEEE CNF](#)

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**44 Need for a national drug utilization review (DUR) criteria knowledgebase**

Matsiras, P.V.; Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994  
Pages:46 - 47

[\[Abstract\]](#) [\[PDF Full-Text \(92 KB\)\]](#) [IEEE CNF](#)

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**45 Model-based analysis of cardiac motion from tagged MRI data**

Park, J.; Metaxas, D.; Young, A.; Axel, L.; Computer-Based Medical Systems, 1994., Proceedings 1994 IEEE Seventh Symposium on , 10-12 June 1994  
Pages:40 - 45

[\[Abstract\]](#) [\[PDF Full-Text \(296 KB\)\]](#) [IEEE CNF](#)

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